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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/818,138	03/27/2001	Atsuhiko Yoneda	8373.234US01	2609	
23552	7590 09/29/2004		EXAM	EXAMINER	
MERCHANT & GOULD PC			CUEVAS, PEDRO J		
P.O. BOX 290 MINNEAPOL	3 IS, MN 55402-0903		ART UNIT	PAPER NUMBER	
	, · ·		2834		

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/818,138	YONEDA ET AL.				
		Examiner	Art Unit				
		Pedro J. Cuevas	2834				
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet w	ith the correspondence address				
THE - External control	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. If SIX (6) MONTHS from the mailing date of this communication. If period for reply specified above is less than thirty (30) days, a reploperiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing period patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a oly within the statutory minimum of thi will apply and will expire SIX (6) MOI te, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 12	July 2004.					
		s action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the r						
	closed in accordance with the practice under	D. 11, 453 O.G. 213.					
Disposit	ion of Claims						
4)🖂	Claim(s) 1 and 6-8 is/are pending in the application	cation.					
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)	Claim(s) is/are allowed.						
	☑ Claim(s) <u>1 and 6-8</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/	or election requirement.					
Applicat	tion Papers						
9)	The specification is objected to by the Examin	er.					
10)⊠	The drawing(s) filed on <u>27 March 2001</u> is/are:	• • •					
	Applicant may not request that any objection to the		` '				
441	Replacement drawing sheet(s) including the correct	•					
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	d Oπice Action or form P1O-152.				
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig	nts have been received. nts have been received in A	Application No				
	3. Copies of the certified copies of the pri		received in this National Stage				
*	application from the International Burea	• • • • • • • • • • • • • • • • • • • •	rossived				
	See the attached detailed Office action for a lis	o une ceruneu copies no	received.				
Attachmei	nt(s)						
	ce of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08		(s)/Mail Date Informal Patent Application (PTO-152)				
	er No(s)/Mail Date	6) Other:	* * * * * * * * * * * * * * * * * * * *				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on July 12, 2004 have been fully considered but they are not persuasive.

- 2. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., width of gap d) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).
- 3. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).
- 4. In response to applicant's argument that "Konecny discloses a motor 10 having an external permanent magnet rotor assembly 12 and an armature 18 serving as the stator disposed inside the rotor assembly with an annular radial gap 26 defined therebetween" and "Nishiyama discloses a motor having an inner rotor and an outer stator", U.S. Patent No. 5,723,931 to Andrey discloses the construction of a multiple pole, multiple phase, permanent magnet motor having both, an inner and an outer permanent magnet rotor (Figures 16-19).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,774,428 to Konecny in view of U.S. Patent No. 6,049,153 to Nishiyama et al.

Konecny disclose the construction of a compact three-phase permanent magnet rotary machine having low vibration and high performance comprising:

an annular stator (20) having circumferentially arranged stator windings (Figures 1A and 1B) of nine poles $(A_{1,2,3}, B_{1,2,3}, C_{1,2,3})$ radially arranged at an equal pitch, each of said poles having respective one of said stator windings wound therearound, three or a multiple of three poles of said stator windings being connected in series to provide three phases (Coles, Figure 3), each of said three phases comprises those three or a multiple of three poles of said stator windings which are not positioned adjacent to each other (Figure 2), or adjacent to each other (Figure 1);

a rotor consisting of permanent magnets of eight poles (Figures 1 and 2): the stator windings being connected such that they can be driven by electric power of three phases; and

an armature core winding method having stator winding groupings comprising three poles of said stator windings, which are positioned as every other one of said stator windings and being connected in series.

However, it fails to disclose an inner rotor positioned within the outer stator.

Nishiyama et al. teach the construction of a motor having:

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an inner rotor (13) positioned within an outer stator (2) and consisting of permanent magnets(14) of eight poles magnetized radially so that N and S poles are alternately arranged circumferentially; and

having a motor shaft (4) on which said permanent magnets of eight poles are circumferentially arranged, said motor shaft having solid form;

for the purpose of producing an inductance difference between the q-axis inductance and the d-axis inductance, so that it is possible to rotate and drive the rotor by making use of the reluctance torque.

It would have been obvious to one skilled in the art at the time the invention was made to use the motor disclosed by Nishiyama et al. with on the compact three-phase permanent magnet rotary machine disclosed by Konecny for the purpose of producing an inductance difference between the q-axis inductance and the d-axis inductance, so that it is possible to rotate and drive the rotor by making use of the reluctance torque.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.
- 7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The

examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro J. Cuevas September 24, 2004

KARL TAMAI